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## FOREIGN MANUFACTURES IN CHINA.

Two native companies have been established at Shanghai, one for the spinning of cotton yarn and the other for the weaving of cloth, to both which a monopoly for ten years has been granted. His Excellency Li Hsueh-chang, Superintendent of Trade for the Northern Ports, in his instructions to the Taotai, desires all rights in foreigners establish similar industries at the Twenty ports, foreign manufacture, he says, are not authorized in Chinese ports to manufacture Chinese goods, or to convert it by industrial processes into a different nature of goods. The principle that foreigners are not entitled as of right to establish manufacturing has been stoutly maintained by the Chinese Government, and is actually yielded by the Foreign Ministers, has nevertheless been applied in several instances. His Excellency says:—The German Envoy, Mr. von Brandt, had formerly the idea that foreigners ought to be allowed to establish such factories at places open to foreign trade; but the Taotai Li Yamen, after repeated discussions, declined to yield the point. During the eighth year of the Republic [1919] a foreign merchant in business at Shanghai proposed to engage in the manufacture of silk piece goods by machinery; and on that occasion also energetic steps were taken both at Peking and elsewhere, which resulted in the abandonment of the project. The same principle is to be applied again, in reference to the scheme of Mr. GRANT, who has been endeavouring to establish a cotton-spinning company. In reference to this the words of Li Hsueh-chang's instructions are as follows:—The scheme of Mr. GRANT, an English gentleman of the firm of Dorn & Co., engineers, to invite the subscription of shareholders in a Company for buying a piece of land at Potung, and seeking up thereon machinery for the spinning of cotton, is an evident contravention of the rule by which foreigners have hitherto been precluded from manufacturing native products, and comes under the same category as the instances before adduced. H.E. the Superintendent of Trade has therefore to instruct the Taotai at once to take the necessary steps to have the enterprise forbidden. Foreigners are not to be allowed to establish industries at the ports, which is expressed in terms so general as to include the settlement areas.

The treaties are silent on the question of manufacturing. The confer on the subject of the respective treaty powers, the right of trading at the treaty ports, and in the words of the French and German treaties, to carry on their industry, i.e., to practice their art or handicraft. By the English treaty British subjects are allowed to carry on their "mercantile pursuits," while the American treaty confers on the citizens of the United States the right to engage in "commerce," and in all manner of merchandise. This latter evidently would not cover the right to establish manufacturing. Would the English term "mercantile pursuits" or the French term "industrie"? We think so; at all events they cannot be read as excluding manufacturing. Probably the subject was not specifically in the minds of the negotiators of the respective treaties, but it is evident that there should be freedom of expansion for trade, and that necessarily leads to manufacturing. There are certainly not excluded by treaty, and the Chinese seem to have waived to some extent whatever right of objection they may have had by permitting the establishment of brick tea factories by foreigners at various places, the establishment of a sugar refinery at Swatow, and the establishment of the match and paper factories at Shanghai. Having gone so far, can they now step in and say that foreigners in China may not engage in the cotton manufacturing industry? Mr. Hsueh-chang speaks as though Mr. von Brandt had given in on the point, but that is not the case. It is the question of the right to establish a factory, not that no agreement or understanding has been arrived at either one way or the other—a very dangerous position in which to leave any question when dealing with China, for it is quite in accordance with native policy to treat it as a concession to their views.

Whatever may be said as to the legal aspects of the question, the prohibiting of foreigners establishing manufacturing is very unfortunate for China and the Chinese. Mr. Hsueh-chang says:—"Nor can any foreigner be allowed, by establishing a manufactory for weaving cotton, to encroach on the rights of the natives of China and to take bread out of the mouths of Chinese," and with reference to Mr. GRANT's scheme he says:—"The Taotai must not allow any foreigner to affect the interests of the Machine Cloth Weaving Company in a prejudicial manner; it also has the gravest bearing on the much greater question of the gaining of their daily bread by the people of China." The effect of the establishment of cloth weaving factories in China would not take the bread out of any one's mouth; its only effect would be to give the people a means of obtaining their daily bread, and to create a demand for labour. If a foreign factory would take the bread out of the mouths of Chinese, so equally will a Chinese factory. The Viceroy's position here is not strictly logical. Experience shows, however, that the adoption of labour-saving appliances, by cheapening the output and so stimulating competition, is an inevitable process. The objection founded on the fear of the bread being taken out of the mouths of Chinese may therefore be at once dismissed. The only remaining question is whether there are political objections to allowing foreigners to establish manufacturing. No such objections are suggested by the history of the nation already established. On the other hand, the establishment of such industries in China is not as yet understood foreign manufacturing processes, but by allowing foreigners to set up industrial establishments they could learn those methods more cheaply and expeditiously than by any other means.

## BRITISH RIGHTS AND RESPONSIBILITIES IN CHINA.

At the time of the Franco-Chinese hostilities the question of the rights and liabilities of Great Britain with respect to the island of Ousan was raised in these columns. By a Convention signed at Bocca Tigris on the 4th April, 1906, it was stipulated, on the part of His Majesty the Emperor of China, that on the evacuation of Ousan by Her Britannic Majesty's forces the said island should never be ceded to any other foreign power. By the next article of the agreement, Her Britannic Majesty consented, upon her part, in case of the attack of an invader, to protect Ousan and its dependencies, and to restore it to the possession of China as of old. This Convention, we maintained, was still in force, but our view did not go unchallenged, the contention being advanced that the Tientsin Treaty superseded the Nanjing Treaty, which was renewed and confirmed. The only specific abrogation, however, was of the Supplementary Treaty and General Regulations of Trade, and we contended that no other Treaty or Agreement could be abrogated merely by implication. This view has now been officially confirmed. Yesterday's mail brought out a Parliamentary return

giving "Clauses in Treaties or other binding Agreements at present in force between China and the United Kingdom, relating to the Treatment of Immigrants from either place in the territories of the other." It returns Articles I. and II. of the Bocca Tigris Agreement, providing for the protection of foreigners at Canton, are quoted. This is proof that the Agreement is still considered by the Foreign Office as being in existence, and the rights and liabilities of Great Britain with regard to Ousan remain as they were in the year 1906, notwithstanding that no mention is made of the subject in the later Tientsin Treaty.

## THE LIGHTING AND THE WATER SUPPLY OF THE HILL DISTRICT.

The question of lighting the Hill District, which has recently been under discussion in certain quarters, resolves itself into one of two alternatives:—The residents of the Hill District are to pay for light. The residents in the City of Victoria are rated at 18 per cent, those at the Peak pay only 8½, the difference being due to the deduction of the water, lighting, and fire brigade rates, the upper levels not enjoying the benefit of the particular services for which these rates are levied. In the Rating Ordinance passed in the early part of the present year the distinction between the different classes of rates was abolished, and there is now only one rate, varying with different districts, but it will be useful to bear in mind the old distinction, as it will indicate what the residents at the Peak would have to pay if they wished the roads lighted. Under the old Ordinance the lighting rate was 12 per cent, and the water rate at the Peak was 10½ per cent. The rateable value of the Hill District is now \$43,710, and the amount of rates \$3,884. Another 12 per cent, would give an addition of \$555, an amount far from sufficient to provide for the adequate lighting of the roads.

Supposing it were decided to adopt public lighting at the Peak, the question of the amount to be paid would have to be decided. Electricity has its advocates, but it is considered by others that it would be dangerous in case of thunderstorms. What weight, if any, ought to be attached to this objection we are not prepared to say, but on other grounds the electric system of lighting may, we think, be dismissed from consideration. Electric lighting has not yet reached the stage of maturity, and as the lighting of the Peak, if decided on, could be accomplished by an extension of the lighting system of the lower levels, we may assume that gas would be the illuminant adopted. For the Gas Company to carry mains to the Peak would consume a considerable amount of capital in running what are called dead mains, that is, mains off which there is no consumption of gas. The cost of the number of houses, too, at the Peak is not so large as to tempt the Company to carry there without a good contract for public lighting as a certain source of income. It would, moreover, be some time before all the houses would be fitted with gas pipes, for naturally people are somewhat disinclined to out about their new houses. In a great measure, therefore, the Company would be likely to be deterred from carrying the mains to the houses now being erected and those to be erected in the future. The Company is, we understand, ready to take gas to the Peak when they can feel sure it will not result in actual loss, but the prospect of an adequate return from private consumers is so remote that it is only by assistance from the Government in the form of a liberal public lighting contract, that gas is likely to reach the heights. As shown above, a lighting rate of 12 per cent, would not be sufficient to cover the cost of such a contract. New houses are, however, being continually built, the rateable value is increasing, and the time will arrive when the rate will cover the cost of the residents are disposed to pay it.

The question of the water supply at the Peak is in very much the same position as the lighting question. A reservoir could be very easily constructed in the neighbourhood of Mountain Lodge, from which the whole district could be supplied by mains, the water being led into the houses. This is a convenience for which residents would be extremely thankful, and for which they would be willing to pay, as they would then be able to have water at a rate of 2 per cent, or less, however, though it would probably be sufficient to cover working expenses, would leave little or nothing for return on capital. A suggestion for increasing taxation is never agreeable, but if the Peak residents wish to enjoy the conveniences of the town at their country residences, they will have to pay town taxes. The number of houses on the heights is, however, as yet too small to admit of the conveniences, even after bringing the rates up to what they are in Victoria.

## PRECAUTIONS AGAINST SMALLPOX.

Mr. Eds did good service at the last meeting of the Sanitary Board in bringing forward the subject of the means of coping with a possible smallpox epidemic during the next cold season. The state of affairs existing during the epidemic last winter was entirely unsatisfactory, and for the credit of the colony and in the interest of the public health it is to be hoped that the Sanitary Board will be able to do so well prepared to meet it. Smallpox is more or less prevalent every winter, and there is always a danger of its becoming epidemic; a danger to meet which the colony ought to be in a constant state of preparedness. As Mr. Eds says, last winter smallpox had to be dealt with, which might have been avoided by a "dry spray," and thus the patients were subjected to the risk of a horrible death by burning. Mr. Eds is also correct when he says that the medical staff was overworked. The overwork, however, great as it was, was not the worst part of the business. Dr. ATKINSON, the Superintendent of the Civil Hospital, had to attend the smallpox hospital as well, an arrangement involving great danger and utterly indefensible in the eyes of the public. The Chinese do not as yet understand foreign manufacturing processes, but by allowing foreigners to set up industrial establishments they could learn those methods more cheaply and expeditiously than by any other means.

## THE HONGKONG MEDICAL COLLEGE EXAMINATION.

The first professional examination of the College was held during the past week. The written papers were submitted to the students on Monday, August 8th, and extended over the four consecutive days. To a non-professional reader, the questions seem of a very searching

character, and we believe that they are of the same quality, exactly as the questions submitted to the students of the College of Surgeons and Physicians at home. Not only had the Board of Examiners the British examining boards to guide them, but the German element, present in the Board, brought the important medical educational system of Germany to assist. We would remark, however, that the number of subjects for examination, namely, seven, is much in excess of what British students are subjected to. We understand from the Examiners—and some of them have examined in our home universities that they were well qualified to compare the Chinese students are guided up to the standard of home excellence, and the best of the Chinese students could quite hold their own with the best students of England. We understand that this will be actually tested by-and-by, it is intended to send some of the best Chinese students to undergo a year's training at one of our universities. We have heard a great deal about the medical education of the Chinese in the North, but we cannot understand a system of special teachers for the special subjects. This can be done in the Far East in Hongkong only, and whilst willing all honour to the Doctors who have undertaken the task, we must admit that it is an individual cannot profess to teach everything, even if he had the time. The future of medical education in the Far East, unless a special university is started, is dependent upon the acquisition of the important subjects of Botany and Chemistry, which are taught by specialists, and military medical work are under the immediate supervision of the Army Medical Department.

The oral examination open to the public was held in the St. Andrew's Hall on the evening of Friday, the 10th August. The examiners sat at tables with models, specimens, bones, plants, microscopes, &c., before them, and the students had to make the round of seven tables before they had finished their labours. As usual at all examinations, there were good and bad men, but the readiness with which the Chinese students went through the questions put to them seemed to reflect great credit on the teachers and honour on the pupils. We had not of course the written answers submitted to us, but if they were on a par with the oral answers, and the Chinese students who passed were well deserved. The work done by the students has been made as practical as possible, and the numerous visits made by the students to the Gardens show what interest Mr. Eds and the Examiners take in the work of the College seems to be conducted in a thoroughly professional manner, whether as concerns the lectures or examinations. We are glad to see the students in attendance at the College, but one or two are absent on family affairs and others have joined so recently that they are not yet available for examinations. The lectures speak in the highest terms of the discipline of the students, and are very favourable upon the earnestness and ability of many of the pupils. We can see a great future in all this, and we are convinced that the energies of those responsible for the working of the College will be directed to the improvement of the work of the College with the progress of marks gained by each.

J. Wong ..... 82 per cent.  
Kong Wing Wan ..... 75  
Sui Yung Wan ..... 71  
J. J. Kai ..... 68  
Kwan King ..... 58  
Kong Ying Wan ..... 55  
Lau Suk Fung ..... 50  
\* Failed in Botany only.

The marks obtained by the three first students are shown in the table, and the value of 60 or above is bestowed upon the students who have done best at their examination, but the conditions of award will not be decided until next week. We understand the distribution of marks of success of great interest, and the work of the winter session in October, when it is hoped the Board's award will be given. The inspection of the four students' dissertations by Surgeon-General Lower will be also about the same date.

The following are the papers set in the various subjects:—

Botany. Examiners: Chas. Ford, F.L.S., Theophilus Sampson.

- 1.—What are the names given to the different divisions of the two sub-phyla of the plant kingdom? Place the names in order, beginning with the highest degree and descending in regular order to the lowest.
- 2.—What are the characteristics of:—  
a. Monocotyledonous plants  
b. Dicotyledonous plants  
c. Exogenous plants  
d. Endogenous plants
- 3.—What are the functions of the root, stem, leaves, and flowers of a plant?
- 4.—Give the names of the different tissues, and state what you know in connection with each.
- 5.—Of what does the food of plants consist, by what organs and in what state is it absorbed?
- 6.—Describe the structure of a leaf, and apply the correct names to each part of the plantlet after germination has taken place.
- 7.—Give the names and meanings of the terms used in regard to leaves, under the following heads:—  
a. As to duration  
b. As to position  
c. As to shape  
d. As to venation
- 8.—What is the meaning of the term inflorescence; describe some different kinds of inflorescences.
- 9.—What are the meanings of the following terms used in reference to flowers:—  
a. Irregular  
b. Symmetrical  
c. Lemnaceous  
d. Monocious  
e. Androus
- 10.—What is the name applied to that organ of a composite flower which corresponds to the ovary in other flowers, and explain the chief differences between composite and other ordinary flowers.
- 11.—Describe four different structures of the corolla.
- 12.—Specify four different modes in which stamens are inserted, and state three methods of attachment of stamens to the ovary.
- 13.—Describe the process of fertilisation of a dioecious plant.
- 14.—Fill up the sentences, with accurate descriptions of the two kinds of flowers placed before you.

## PHYSICS.

Examiners: T. K. J. Chalmers, LL.D., J. W. D. Daily (Central School).

- 1.—What is inertia?
- 2.—A body travelling with a uniform velocity has gone 57 ft. in 5 seconds, what is the velocity per second, and how far would it go in 18 seconds?
- 3.—A body has an acceleration of 20 ft. per second. Starting from rest (a) what is its velocity at the end of 5 seconds? (b) How far has it gone at the end of 5 seconds? (c) How far has it gone at the end of 10 seconds?
- 4.—What is the difference between the pole, the axis, and the fulcrum?
- 5.—Distinguish between centrifugal and centripetal force.
- 6.—Name the three kinds of equilibrium, and give an example of each.
- 7.—What name is given to the empty space at the top of the mercury in a barometer? And what would be the result if a small hole were bored in the top of the glass just over the mercury? Give reasons for your answer.
- 8.—What is specific gravity? What is the unit for solids and liquids? What is the unit for gases?
- 9.—Name the mechanical powers.
- 10.—What are the two kinds of energy? Give an example of each.
- 11.—Why will some small bodies like needles, which are heavier than water, float on the surface?
- 12.—If the pressure of air were removed from the face of the earth, what would be the result? (a) to solids; (b) to liquids; (c) to gases?
- 13.—What would be the result if an air-tight box were filled with gas, and placed under the receiver of an air-pump, when the air was pumped out?
- 14.—What is the difference between a mass and a mole?

15.—What is the velocity of sound in air? P and S were 100 ft. apart, and S heard P 3 seconds later. What is the velocity of sound in air?

16.—What is refraction?

17.—What is the law of reflection?

18.—If a ray of white light be reflected through a prism what will be the result? P and S were 100 ft. apart, and S heard P 3 seconds later. What is the velocity of sound in air?

19.—What is electricity? P and S were 100 ft. apart, and S heard P 3 seconds later. What is the velocity of sound in air?

20.—To the total quantity of electricity on the earth is added the same? Give reasons for your answer.

## CHEMISTRY.

Examiners: W. Taylor, W. Edward Crow.

- 1.—How do you prepare hydrogen gas? Make a sketch of the apparatus you would use, and give an equation showing the reaction.
- 2.—An ordinary wine bottle is capable of holding, at the ordinary temperature and pressure, about 14 grains of nitrogen gas. How many molecules of nitrogen gas would be contained in the bottle?
- 3.—How would you distinguish sulphate of magnesium from sulphate of zinc?
- 4.—Explain the difference between a mechanical mixture and a chemical compound. Give an example of each.
- 5.—Write the chemical formulae for the following substances:—  
a. Potassium iodide  
b. Sodium carbonate  
c. Ammonium chloride  
d. Calcium chloride  
e. Copper sulphate  
f. Sodium chloride  
g. Sodium nitrate  
h. Sodium sulphate  
i. Sodium hydroxide  
j. Sodium bicarbonate  
k. Sodium acetate  
l. Sodium formate  
m. Sodium oxalate  
n. Sodium malate  
o. Sodium tartrate  
p. Sodium succinate  
q. Sodium fumarate  
r. Sodium maleate  
s. Sodium phthalate  
t. Sodium benzoate  
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